	Depth 6	Contents 7	Reference to last Measurement 8

First & Final Bill

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09

231434

Serial No. BR- 132/31 E 14

Name of work. Emergency works and Maintence of ward in ward NO-10 (Doddabomma Sandra), Vidyaranyapura Sub-division.

From ..... To .....

Name of Contractor of nature of Agency.... K.R.I.D.L

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Work Code No:- 010-14-000041.						
	Agreement No:- 660. Dt 05-03-2015.						
	Work order No:- EE/BTP/KRIDL/WO/660/2013-14.					Dt 05-03-2014.	
	Address of Agency:- #119, 11th cross 3rd floor Poora park Road Malleshwaram. Bangalore-560003.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Dismantling of existing Structures like culverts, bridges, retaining walls and other structure comprising of masonary cement concrete, wood Scaffolding						
	Ramachandra Pura School Roof	1	10.00	7.50	0.15 =	11.25 Cum	
		2	10.00	0.23	3.00 =	13.80 Cum	
		3	7.06	0.23	3.00 =	14.61 Cum	
		1	10.00	6.00	0.15 =	9.00 Cum	
		2	10.00	0.23	3.00 =	13.80 Cum	
		5	6.00	0.23	3.00 =	20.70 Cum	
	Flooring concrete	1	25.00	10.00	0.15 =	37.50 Cum	
		1	12.00	10.00	0.15 =	18.00 Cum	
	Deductions						
	Doors	2	0.90	0.45	2.10 =	-1.70 Cum	
	Window	2	0.90	0.23	2.10 =	-0.87 Cum	
		4	0.90	0.45	0.75 =	-1.22 Cum	
		2	0.60	0.23	0.60 =	-0.17 Cum	
					Total =	134.71 Cum	
		@ Rs	826.20			Rs	111300.00

Cft Tiles

Serial No.....

Name of work.....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work	
1	2	
2)	Earth work in Surface ground manally Cotter trenches In Doddabommasandra Govt School	
3)	Earth work excavation Sanitary line and above in width	

Depth 6	Contents 7	Reference to last Measurement 8
S. bridges, retaining walls		
ement	concrete, wood Scaffolding	
·15 =	11·25 Cum	
·00 =	13·80 Cum	
·00 =	14·61 Cum	
·15 =	9·00 Cum	
·00 =	13·80 Cum	
·00 =	20·70 Cum	
·15 =	37·80 Cum	
·15 =	18·00 Cum	
·10 =	-1·70 Cum	
·10 =	-0·87 Cum	
·75 =	-1·22 Cum	
0·60 =	-0·17 Cum	
Total =	134·71 Cum	
	RS	111300·00

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09

231435

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
2)	Earth work in surface excavation in hard soil for levelling and lowering the ground manually other than foundation of buildings, culverts, road dressing and trenches						
	In Doddabommasandra Govt School	1	35·60 (5·1 + 5·0) / 2		0·120	= 35·96 Cum	
		1	25·00	5·00	0·120	= 25·00 Cum	
					Total =	58·00 Cum	
		@ RS	126·36			RS	7329·00
3)	Earth work excavation for foundation of buildings, culverts water supply sanitary line and electrical conduits either in pits or in trenches 1·5m and above in width in hard soil not exceeding 1·5m in depth						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8)	providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates						
	Coping	1	10.00	0.45	0.10 =	0.45 cum	
		1	6.50	1.80	0.10 =	1.17 cum	
		1	6.80	1.80	0.10 =	1.22 cum	
		1	6.60	1.80	0.10 =	1.19 cum	
		1	6.50	1.80	0.10 =	1.17 cum	
					Total =	3.96 cum	
		@ Rs	4779.00			Rs	18925.00
9)	providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregate @ 0.459 cum with						
	Bottom	1	3.50	2.50	0.20 =	1.75 cum	
	Sidewall	2	3.50	0.23	2.10 =	3.38 cum	
		2	2.20	0.23	2.10 =	2.13 cum	

Serial No.....

Name of work.....

Name of Contractor of nature of Age

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Covering Slab
	Culvert
	Ramp
	Deduction for Cap

Depth 6	Contents 7	Reference to last Measurement 8
ent concrete of mix 1:2:4 with graded granite metal coarse		
0.10 =	0.45 Cum	
0.10 =	1.17 Cum	
0.10 =	1.22 Cum	
0.10 =	1.19 Cum	
0.10 =	1.17 Cum	
Total =	3.96 Cum	
	RS 18925.00	
cement concrete of design mix down size graded granite metal gregate @ 0.45 Cum with		
0.20 =	1.75 Cum	
2.10 =	3.38 Cum	
2.10 =	2.13 Cum	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09

Serial No..... 231438

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Covering Slab	1	3.50	2.50	0.15 =	1.31 Cum	
	Culvert	1	6.50	1.80	0.23 =	2.69 Cum	
		1	6.80	1.80	0.23 =	2.82 Cum	
		1	6.60	1.80	0.23 =	2.73 Cum	
		1	6.50	1.80	0.23 =	2.69 Cum	
	Ramp	2x4	6.50	1.00	0.15 =	7.80 Cum	
	Deduction for Cap	1	0.60	0.60	0.30 =	-0.11 Cum	
					Total =	22.38 Cum	
		@ RS 5535.32				RS 123880.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10)	providing mild Steel reinforcement for R.C.C work including Straightening Cutting, bending, hooking Placing in position, lapping and/or welding wherever required tying with binding wire						
	Qty work Page no - 231/454.						
	Of this M.B no - 2315					= 26.86 qtl	(RFC ✓)
	@ Rs 7312.94					Rs 196426.00	
11)	providing and removing centering, Shuttering, Stuffing, propping etc, and removal of form work for Vertical Surface Such of walls of any thickness						
	Sump Sides						
		4	3.50		2.50	= 35.00 Sqft	
		4	2.50		2.50	= 25.00 Sqft	
		1	3.50		2.50	= 8.75 Sqft	
	Culverts	1	6.50	0.60		= 3.90 Sqft	(Tc ✓)
		1	6.80	0.60		= 4.08 Sqft	
		1	6.60	0.60		= 3.96 Sqft	
		1	6.50	0.60		= 3.90 Sqft	

M.A.P

Me

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
		2x4
		2x4
	Cost	
	31/3/2014	
12)	Providing and laying	in pos
	Cement @ 300kgs with	20mm a
	@ 0.64 Cum and fine aggregat	
	In D.B. Sanderi	1
	Govt School	1

Depth 6	Contents 7	Reference to last Measurement 8
work including straightening, lapping and/or welding		
=	26.86 at	(LFC Rs 196426.00
gu		
Stuffing, propping etc,		
e Such of walls of any thickness		
2.50 =	35.00 Sqt	
2.50 =	25.00 Sqt	
2.50 =	8.75 Sqt	
=	3.90 Sqt	
=	4.08 Sqt	
=	3.96 Sqt	
=	3.90 Sqt	(LFC

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09

231439

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2x4	6.50		0.25 =	13.00 Sqt	
		2x4	1.80		0.25 =	3.60 Sqt	
					Total =	92.90 Sqt	
	Copy 31/3/2014	@ Rs	271.08			Rs	25183.00
12)	Providing and laying in position plain cement concrete of min M20 with OPC Cement @ 300kgs with 20mm and down size graded granite, metal coarse aggregate @ 0.64 Cum and fine aggregates @ 0.43 Cum. In D.B. Sarderia Govt School	1	35.60 (5.10+5.0)		0.10 =	17.98 Cum	(LFC
		1	25.00 (5.00^2)		0.10 =	12.50 Cum	
					Total =	29.00 Cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		@ Rs 6464.88				Rs 187482.00	
13)	vaccum De-watering with vaccum pump and Suction mat and compaction with Skim floater Clubbed with floating dise including cost of genarator HOM of machinery screed vibratory						
	In D.B. Sandra Govt School	1	35.00 (5.10+5.10)/2		= 179.78 Sqm		
		1	25.00 (5.00)		= 125.00 Sqm		
					Total = 290.00 Sqm		
		@ Rs 91.80				Rs 26622.00	
14)	Providing and constructing precast concrete Solid blocks with compressive Strength not less than 35 kg/Sqm with cement mortar 1:4 masonary (Piers, Jaams, Closer blocks) with Solid concrete blocks						
	Compound wall	1	10.00		2.50 = 25.00 Sqm		
		@ Rs 924.48				Rs 23112.00	

Serial No.....

Name of work.....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work
1	2
15)	Hire Charges of JC. B
16)	Hire Charges of Tracto
17)	Engaging Casual Labour

Depth 6	Contents 7	Reference to last Measurement 8
		RS 187482.00
d Suction mat and compaction se including cost of generator		
=	179.78 Sqm	
=	125.00 Sqm	
Total =	290.00 Sqm	
	RS 26622.00	
lid blocks with compressive r mortar 1:4 metonary Cquoin, ocks		
2.50 =	25.00 Sqm	
	RS 2312.00	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09

231440

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
15)	Hire Charges of JCB Excavator including operator and fuel						
	45 days				Total =	45 days	
	@ RS 6720.00					RS 302400.00	
16)	Hire Charges of Tractor 40HP including operator and fuel						
	2×60				=	120 days	
	@ 1296.00					RS 155520.00	
17)	Engaging Casual Labours (unskilled mazdoor Heavy)						
	2×10×60				Total =	1200 nos	
	@ RS 191.81					RS 230172.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
18)	Earth work excavation by manual means in Hard soil including an average horizontal throw upto 2 meters and an average lift upto 0.5m						
	Excavated Surface	2x3	30.00	0.45	0.30 =	24.30 Cum	
	Desilting of Drains	2	12.00	0.45	0.25 =	2.70 Cum	
		2x4	30.00	0.45	0.45 =	48.60 Cum	
		2	10.80	0.45	0.30 =	2.92 Cum	
		2x3	30.00	0.45	0.40 =	32.40 Cum	
		2	18.20	0.45	0.30 =	4.91 Cum	
		2x2	30.00	0.45	0.35 =	18.90 Cum	
		2	22.50	0.45	0.30 =	6.08 Cum	
	Berm Cutting	2	26.00	0.85	0.25 =	11.05 Cum	
		2x2	30.00	0.90	0.15 =	16.20 Cum	
		2	21.80	0.85	0.20 =	7.41 Cum	
		2x2	30.00	0.65	0.20 =	15.60 Cum	
		2	25.10	0.90	0.25 =	11.30 Cum	
		2x2	30.00	0.75	0.25 =	22.50 Cum	
		2	30.80	0.90	0.25 =	13.86 Cum	
					Total =	235.53 Cum	

CLRC

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numb
1	2	3
		@ R
19)	Lead for Disposal of Debris Mechanical means including	
		@
20)	Add 1% for QC charg	
21)	Add 1% for K.R. P.D.L	

Depth 6	Contents 7	Reference to last Measurement 8
	Hard soil including an	
	an average lift upto 0.30m	
0.30	= 24.30 Cum	
0.25	= 2.70 Cum	
0.45	= 48.60 Cum	
0.30	= 2.92 Cum	
0.40	= 32.40 Cum	
0.30	= 4.91 Cum	
0.35	= 18.90 Cum	
0.30	= 6.08 Cum	
0.25	= 11.05 Cum	
0.15	= 16.20 Cum	
0.20	= 7.41 Cum	
0.20	= 15.60 Cum	
0.25	= 11.30 Cum	
0.25	= 22.50 Cum	
0.25	= 13.86 Cum	
Total	= 235.53 Cum	

CC TC

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09

231441

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		@ Rs	90.72			Rs	21367.00
19)	Lead for Disposal of Debris shall be Payable at Carriage rates by Mechanical means including loading and unloading					= 235.53 Cum	
			Aff Vide Item No-01			Rs	17125.00
		@ Rs	72.71			Rs	17851.00
20)	Add 1% for QC charges					Rs	196362.00
21)	Add 11% for R.R.T.D.L Service charges					Total Rs	1999326.00
							1981472=00

CC TC

3.11.14

Jaotha
AE 31/5/2014

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate;- Certified that the above work satisfactory and no-materials issued from departmentally Jadhao AE 31/5/2014.						

31/5/14

Serial No.....

Name of work.....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Sketch showing

Jadhao
AE

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Cont	rence ast rement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				IT-	39629-		
				WT-	79259-		
				FSD-	118888-		
				LWC-	19815-		
				CBR-	1981-		
				Roy-	13852-		
				TOTAL-	273424=00		

1981472=00

273424=00

1708,0928=00

Final Bill

R-133/31-5-14

Serial No.....

Name of work.....Providing CC Ro... area in ward...

Name of Contractor of nature of Ag... Sub-divn...

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Work code NO;- 0(0
	Work order NO;- E
	Head of Account;-
	Address of Agency;-